

# Sealing of construction joints

## Expansion joints and construction joints (swellbar & PVC waterstock)

### Recommended products



PVC **weberdry waterstop** are recommended to stop leakage positively through construction and expansion joints in concrete structures. They are required whenever concreting is to be made in 2 phases (between slab and slab or slab and wall or wall and wall). They are installed within the reinforcing steel before concreting. During concreting, one part is immersed in concrete while the other is kept free until the second phase of concreting takes place. They are made of flexible PVC and are available in different sizes and types.

Swellable waterstops are recommended for construction joints. They are present in two types:

**weberdry swellbar** is a mix of bentonite and butyl rubber, and **weberdry swellbar RB** is a swellable waterstop in pure rubber. They have the ability to expand in presence of water. The expansion process is slow in time.

It starts after 4 hours, hence enabling the concrete to set.

They are present in different sizes, depending on the degree of protection required.

Swellbar (SQ type) joint sealant are developed for use in both fresh and sea water.



## Application of swellable waterstops and PVC waterstops

- Uneven wet surfaces should be even, and hardened rough surfaces should be smoothed with the appropriate grinding machine, to install the swellable waterstops.
- Use steel nails for fixing, a 25 to 30 cm interval is necessary between nails.
- PVC **weberdry waterstop** are tied to the reinforcement steel bars with steel wires through the holes in the perforations in the waterstop.
- Overlap joints in the strips should be made at least 75 mm. Butt-jointed is also acceptable but has to be carefully stuck down with mastic.